WINNIPEG
FIRE PREVENTION
BULLETIN

Saver of Life and Property

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PUBLISHED BY
Winnipeg Firemen's Union
1919

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WINNIPEG FIRE PREVENTION BULLETIN

CONTAINING

EXPLANATIONS, INSTRUCTIONS AND ILLUSTRATIONS

PREPARED SPECIALLY WITH
THE HOPE OF DECREASING
THE APPALLING LOSS
OCCASIONED BY FIRE

PUBLISHED BY

WINNIPEG FIREMEN'S UNION

WINNIPEG, MANITOBA

1919

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The Hudson's Bay Company

PREFACE

In presenting their Fire Prevention Bulletin to the public, the City of Winnipeg Firemen do so with the hope of impressing the great and increasing necessity and importance of Fire Prevention; the succeeding pages have been carefully prepared and are of great public service; to help to reduce Winnipeg's fire wastage is their earnest purpose.

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Chief, Winnipeg Fire Department

An Organization of Farmers

A COMPANY must have good organization and equipment if it is to serve its customers in a satisfactory way. This Company is owned by 35,000 farmer shareholders, and is operated for the sole purpose of giving farmers a clearing house through which to carry on their business of farming. Not only are shareholders served by this Company, but all farmers throughout western Canada are welcome to use its organization for their profit and betterment.

Livestock is marketed through U. G. G. upon a co-operative plan. Grain is handled on consignment or bought through any of the 300 U. G. G. Company elevators. Farm machinery and supplies are sold for cash at very reasonable prices—an excellent service in an excellent cause.

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Winnipeg Fire Prevention Bulletin

PUBLISHED BY

WINNIPEG FIREMEN'S UNION

NINETEEN HUNDRED AND NINETEEN

The purpose of the Winnipeg Fire Prevention Bulletin is to awaken the citizens to their responsibility in the matter of the reduction of the great waste by fire which is experienced every year. Property destroyed by fire is irrecoverably lost. Why not preserve our assets by preventing fires? It is the patriotic duty of every citizen to prevent fires.

FIRE WASTE IN CANADA

Fire waste in the Dominion of Canada constitutes a problem of paramount and far-reaching importance. Continuation of the present tremendous loss of property and life by fire cannot but vitally affect the economic future of the country.

The public regards disastrous conflagrations with but little concern, holding the popular but erroneous conception that the insurance companies pay the loss. The absurdity of such an assumption is manifest. They could not do so and remain solvent. In the event of a conflagration, such as that in Toronto in 1904, the insurance companies poured into the city $10,000,000 that had been gathered from all parts of Canada. The people of Halifax and of Vancouver helped to rebuild Toronto. It is the insurance interests through fire insurance that enables recovery from the effects of fire.

It is as necessary to conserve our wealth as it is to prevent the waste of natural resources. Nature in time may restore devastated forest areas, but only human effort can raise a new city from the ashes of the old. Reconstruction prevents productive effort, and the replacement of values destroyed by fire absorbs energies that would otherwise be devoted to industrial and economic projects.

There is a growing recognition of the fact that fire waste is needless and that adequate measures should be taken to conserve [illegible] wealth.

To rouse the people against [illegible] there is no difference regarding the essentials. The average citizen will admit that fire waste is in the nature of a national disgrace. He feels it is time to do something to remedy conditions. It

Two Guiding Principles

SAFETY FIRST

In the Operation of a Street Car Service Today Are

"Safety First and Conservation"

We have developed among our employees in all departments a high degree of efficiency and caution which has thereby reduced accidents on this property to a very marked degree.

In effecting this we have brought to pass a conservation of our human resources, which, in these times particularly, is the prime duty of every individual or company

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seems ridiculous that a people so eager to seek out and destroy the mysterious and hidden enemies of mankind should be so slow and sluggish in fighting a foe so plainly in sight and so readily vanquished. We have led the world in seeking out the causes of pestilence and removing them. We are in the vanguard of the battle against tuberculosis, typhoid and other malignant diseases. Still we stand apart and let the older nations lead the fight against an enemy much more easily conquered.

To the average citizen fire prevention implies a vaguely outlined means of curtailing fire waste by the simple expedient of preventing fires. How this desirable end is to be accomplished is not made clear. The well informed go further and analyze the problem into at least five distinct factors, viz. (1) the engineering, (2) the underwriting, (3) the legislative, (4) the commercial, and (5) the individual. Co-ordination of these varied interests in united reformative endeavor is the first step in any program designed to deal effectively with the question.

LOSS OF LIFE

Every fire in a dwelling house or in the residential areas of our cities, towns and villages endangers the lives of the people. Imagine the awfulness of being awakened and finding the house on fire.

COAL OIL

Starting a fire with coal oil is a most dangerous practice and should be discontinued. Read the following examples of common occurrence:

Kerosene thrown on the kitchen fire in order to hurry up the supper caused a tragedy last night. The baby of the family, about four years of age, was so frightfully burned that it died just before midnight. The mother, who is in the general hospital, in addition to terrible burns, is suffering from a severe mental shock. Her condition is serious and perhaps may prove fatal, as she is badly burned on the body and arms. A third child, about ten years of age, was slightly burned about the arms and hands. There are many reports similar to this. Will you allow coal oil to be used in starting fires in your house?

GALLON GASOLINE EQUALS 83 POUNDS OF DYNAMITE

Many automobile owners do not fully realize the danger connected with the careless handling of gasoline. They recognize the

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explosive power of the liquid, but few of them know how great the explosive power is.

Gasoline, even at a low temperature, constantly develops an explosive vapor. Five gallons of gasoline will generate 8,000 cubic feet of gas, which, if ignited, expands 4,000 times. One gallon of gasoline, properly mixed with air and compressed, is equal to about 83 pounds of dynamite in explosive force. What makes gasoline particularly dangerous is the fact that it is more readily ignited and exploded than dynamite.

Do not keep gasoline in the house. If you have a small quantity on hand keep it in a red can so that it cannot possibly be mistaken for coal oil. Never fill the tank of your automobile or tractor with gasoline by lamplight or any other open light. The risk to life and property is too great.

The attention of the ladies is drawn to the practice of gasoline ing clothes in the kitchen when there is a fire in the stove. Discontinue such a practice as it is extremely dangerous.

CHILDREN AND MATCHES

Children playing with matches have caused a great many fires in this province, resulting in both loss of property and loss of life. Parents should instruct their children regarding the danger of playing with matches. Keep matches out of the reach of children.

PREVENTING WINTER FIRES

Defective heating apparatus has been responsible for a very large proportion of the fires which have occurred in this city. Every householder should look over his furnaces, stoves, chimneys and stove pipes to see that they are in good condition for winter use. Stop and think for a moment what a fire really means; think of the loss of your house with all its contents; think of the cost of replacing it; think of the loss which you will suffer even if you do carry insurance. Is it not worth while to spend an hour or so looking over your heating apparatus so that it may be in good condition? Safety first. Consider carefully the following questions.

Have you a metal stove board under the heating stove?
Is all woodwork within two feet of the stove protected?
Is the stove free from cracks and breaks?
Is the stove pipe clean, sound and perfectly jointed and rigid?
Have you protected all woodwork within eighteen inches of the stove pipe?
Is there a double ventilator thimble around the pipe where it passes through a partition?

The dawn of
"More bread and better bread"
arrived the day the sun first
shone on

PURITY

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10 years of better home-made bread. 5

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FOOD LICENSE No 15-325

Is the chimney clean, is it free from cracks, and is the mortar between the bricks still sound?

Does any woodwork come in contact with the chimney?

Are any flue holes papered over, covered with wood or [illegible] up with rags or [illegible]?

Does the wallpaper come [illegible] the stove pipe?

Are you over burning the [illegible] or leaving dampers wide open?

Have you any [illegible]?

Do you dump ashes on [illegible] against wooden walls, partitions and fences? Do you dump rags, [illegible] and rubbish with ashes? Do you keep the boiler [illegible] from combustible rubbish? Safety along these lines means protection of your property and the lives of those dear to you; so inspect all these things and exercise due care.

Every period of extreme cold results in numerous fires due to overtaxing the heating apparatus. Keep this in mind and watch your stoves, furnaces, etc.

HOW ABOUT THE WEEDS

Are there a lot of weeds around your property that will be a fire breeder this fall when they become dry? A spark from a burning-out chimney sometimes does havoc in dry weeds or grass.

PREVENTABLE FIRE

It waits until the grain in the fields is ripe for harvest, and then destroys over thousands of acres, or else it bides its time until the harvested crops have been stored in elevators and obliterates them by the hundreds of thousands of bushels. It operates in every city and town and in the country districts. It is unceasing in its activities, working by night as well as by day, and for every hour of the twenty-four. It enters countless homes bringing devastation and sorrow; and last, but not least, it causes heavy loss of life.

This foe is not an "alien enemy," but comes of good Canadian stock. It is encouraged by millions of people who believe themselves to be patriotic. Without their help, it would soon be overcome. The name of this great enemy is PREVENTABLE FIRE, and its principal cause is Canadian carelessness.

A FALSE IMPRESSION

Many merchants on finding their store property on fire have ordered people to keep away from the stock, fearing complications

R. J. Whitla & Co.

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WHOLESALE DRY GOODS

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ESTABLISHED [illegible]

Towers' Celebrated Oil Clothing

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and everything in **Dry Goods**

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In this climate there is nothing better than Oats in some form for breakfast, and the form in which they are most easily digested is as Rolled Oats, but they must be properly milled in order that the consumer get best results. Our Mills are noted for their fine products and we know you will find

OGILVIE OATS
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[illegible]

TIMELY WARNING

[illegible] of the waste caused by carelessness [illegible] and [illegible] This can be overcome by cleanliness and [illegible] conditions, and is the first step towards effective [illegible] control.

Fire Prevention means saving [illegible] and [illegible] dollars.

MR. MANUFACTURER AND MILL OWNER: [illegible] are [illegible] to guard your property against loss by fire, and particularly [illegible] it is necessary when resources must be conserved. This applies to all productions, more especially that of food stuff, and every safeguard should be applied to prevent fire destroying that which is greatly needed to supply the requirements of our people at home.

LISTEN: Don't forget that the aid you give in forwarding the movement for fire prevention means a saving in dollars to yourself. Doesn't that interest you?

FIRES IN AN ELEVATOR

In every city, town and village of this province are to be found grain elevators in which is stored wheat and other grains. We all know the necessity of protecting our grain supply, as it is the source of our sustenance. We must save our grain.

Should a fire break out in the elevator in your town do all in your power to save the grain. Some people who are unacquainted with the principles of fire insurance will tell the fire fighters not to touch the grain until after the adjuster arrives. This is absolutely an erroneous idea and may be the cause of the wasting of thousands of bushels of much needed grain.

In case of fire in an elevator, if you see that it is getting beyond control and that the loss of the elevator is inevitable, do what you can to save the grain.

(1) Open all shipping or other spouts leading to the outside of the elevator, thus allowing the bins to empty their contents on the ground below.

(2) Summon assistance and with axes cut openings into the outside bins at their sides near the bottom, thereby allowing the grain to run out in piles on the ground.

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[illegible]

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(3) Utilize every moment of time in removing grain that has been spouted out of bins to a secure place before the fire reaches the lower portions of the elevator.

(4) After building is consumed or nearly so, see that all exposed grain is protected from further fire damage by dragging out burning embers, using for this purpose chains, rakes or any other implement suitable for the purpose, which might be handy. Buckets of water can now be used to extinguish the fire in the grain wherever it is found to be burning.

(5) Set your men at work on the windward side of the elevator to remove the grain as fast as the burning embers are removed and the fire in the piles extinguished. Be particular to keep all the sound grain of each kind separate from the damaged.

(6) See to it that as little water as possible, consistent with actual requirements, is used in putting out the fire, as water causes almost as much damage to grain as fire. Push the work of removing the grain from the ruins with all possible dispatch.

Do not wait for the elevator man or grain buyer to do this. It looks as if the elevator was going to be completely destroyed, it is member or every citizen of the town to proceed to save the grain. It is your patriotic duty. The adjuster on arrival will settle after your returns are in. Grain must be salvaged. In one instance here in 1917 14,000 bushels were salvaged out of a storage of 17,000 bushels, the systematic work of the citizens being the most suggested above having been most effective.

MR. FARMER: Have you given thought to how you can save your buildings against loss by fire? By taking [illegible] fire you can do so by cleaning up and not allowing rubbish to accumulate as a temptation to destruction by incendiaries.

DON'T [illegible] or other buildings with [illegible] light.

DON'T [illegible] gasoline engines, or gasoline in barns. Provide [illegible] of galvanized iron, brick or stone.

DON'T [illegible] all rubbish. [illegible] Watch [illegible]

DON'T [illegible] water in passage way [illegible] that it is kept clean.

DON'T [illegible] sufficient length on each [illegible] shelves on roof [illegible]

DON'T [illegible] high wind [illegible]

[illegible]

THE WATER BARREL

[illegible]

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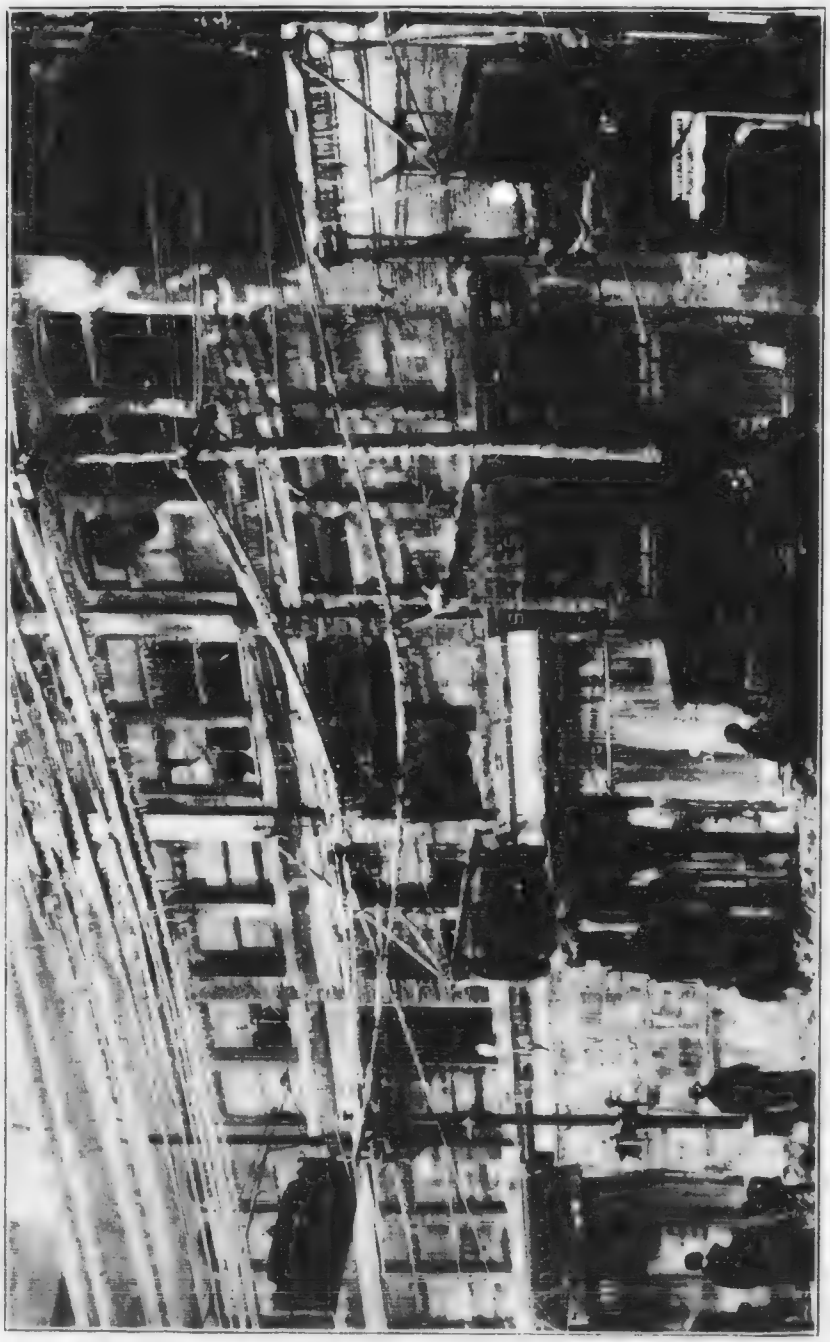

OVERHEAD WIRING HANDICAPS FIRE DEPARTMENTS

[illegible]

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Head Office
Winnipeg

freezing use from four pounds of calcium chloride per gallon of water.

Below is given a table showing the amount of calcium chloride to be added to a gallon of water and the freezing point of the mixture:—

½ pound	29	degrees Fahr. above zero.
1 pound	27	degrees Fahr. above zero.
1¼ pound	25	degrees Fahr. above zero.
1½ pound	23	degrees Fahr. above zero.
2 pound	18	degrees Fahr. above zero.
2½ pound	14	degrees Fahr. above zero.
2¾ pound	3–4	degrees Fahr. above zero.
3 pound	1–4	degrees Fahr. below zero.
3½ pound	8–11	degrees Fahr. below zero.
4 pound	17–19	degrees Fahr. below zero.
4½ pound	27–29	degrees Fahr. below zero.
5 pound	39–41	degrees Fahr. below zero.
5½ pound	50–54	degrees Fahr. below zero.

HOW TRASH MAKES FIRES

A pile of trash that has been lying around all winter is as dry as tinder. A spark and a little breeze are all that is necessary to start trouble. The spark may come from a match thrown down, or from a cigarette cast aside, or from your own or neighbor's flue.

A spark, however, is not always necessary. There is such a thing as spontaneous combustion. Lots of people don't realize that inanimate objects can set themselves on fire. Any one who has been in a chemical laboratory does realize how simple a matter it is. In piles of trash or old rags a process of decay sets in that under certain conditions it is quite likely to produce heating, and sometimes, in the end, fire. Greasy or oily rags are susceptible to this process.

Thus every pile of trash and every accumulation of old clothes or rags, whether in the attic, the cellar or the yard, is a constant menace to the home.

The horse-shoe of luck may not always hang over the barn that "never has had a fire."

THE DUTY OF INSURANCE MEN

All the fire insurance companies have well-organized agency systems. The local agent procures the business and the company looks to the agent to protect its interests as far as a satisfactory insurable risk is concerned. Every agent should keep the interest

DUNLOP FIRE HOSE

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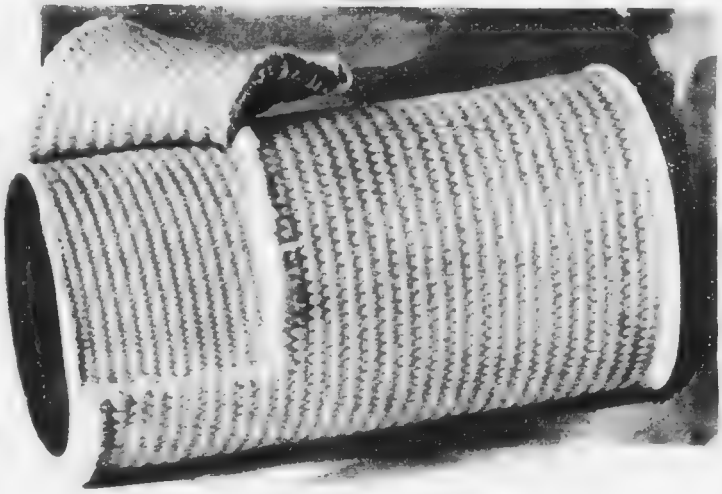

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TORONTO, ONT

FRANK E. FILER

WINNIPEG, MAN.

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Main and Lombard Sts., Winnipeg, Man.

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I. **FINANCIAL AGENTS.**
Our customers receive the benefit of expert advice and assistance in their financial affairs and investments.

II. **EXECUTORS AND TRUSTEES.**
The naming of this Company as executor or trustee insures in any capacity ensures prompt, efficient and economical attention.

III. **TRUST INVESTMENT SAVINGS.**
Funds withdrawable by cheque; interest at 4 per cent.

IV. **REAL ESTATE.**
Agents for the rental, purchase or sale of real estate of all kinds, and for the collection of rentals, care of property, etc.

V. **TRANSFER AGENT & REGISTRAR.**
The appointment of this Company in this capacity increases public confidence in the shares of any company.

to the insurance business constantly in mind. If he does, then he must be a fire prevention enthusiast.

There have been cases where the agent has been lax in his underwriting and has taken applications for an amount greatly in excess of the real value of the property to be insured. This is termed over-insurance. What are the effects of such procedure? First, a needless expenditure of money on the part of the assured for protection that he could not possibly get in case of loss. The statutory conditions of fire policies are very clear on this point. The company is not liable for loss beyond the actual value destroyed by fire. Secondly, over-insurance is always a motive in incendiarism.

Our fire agents have a duty to the public and to the company. If our agents would inspect the property to be insured and would give suggestions to the applicant relative to the protection of his property, think of the confidence it would inspire in your client and also of the effect such suggestions would have in the matter of fire prevention.

Such action and also the inspection of risks already underwritten would tend to improve the risk, a matter of vital interest to the insuring company.

The hearty co-operation of our fire agents in this work of fire prevention is earnestly requested.

MR. RETAIL MERCHANT

INSPECT your premises regularly. Correct all defects, take the utmost precaution against loss by fire and make preparation to safeguard your property by preventing fires.

MR. MERCHANT—Do you know that you are, in part, responsible for the higher rates of insurance premiums by not giving more attention to the prevention of fire? Rates are based on construction of buildings; occupancy; lighting; area; police system; fire department; watchmen; pavements; widths and condition of streets, and general condition of surroundings, and particularly on individual properties. Clean up your premises, and keep clean. Remove all waste and destroy it under proper supervision. No one can honestly foretell a loss by fire. It comes when least expected and when least prepared.

DON'T be in the unprepared class. Make Fire Prevention your business. It will pay good profit, and save loss of trade which becomes scattered as the inevitable result of fire loss.

MR. EMPLOYEE—A fire in the establishment where your work may mean its destruction and cause you and others to lose their positions and income derived therefrom. You certainly don't want such a calamity to happen and should interest yourselves in seeing that it does not, by means of prevention.

Carter-Halls-Aldinger Company

LIMITED

ENGINEERS AND BUILDERS

RAILROAD AND PUBLIC WORK
STEEL CONSTRUCTION AND FIREPROOF BUILDINGS
A SPECIALTY

Offices:
515 Union Bank

Winnipeg, Canada

Private Branch Exchange
Main 7656

THE GAULT BROS. CO. LIMITED
Montreal, Que.

GAULT BROTHERS LIMITED
Vancouver, B.C.

GAULTS LIMITED
Winnipeg, Man. Manchester, Eng.

GAULTS LIMITED

WHOLESALE
DRY GOODS

IMPORTERS AND MANUFACTURERS

FACTORIES: MONTREAL, QUE.

OFFICE AND WAREHOUSE:
McDONNELL, ARTHUR
AND KING STREETS

CABLE ADDRESS
GAULTS WINNIPEG
Western Union Code Used

WINNIPEG

DONALD H. BAIN CO.

WHOLESALE COMMISSION
MERCHANTS and BROKERS

HEAD OFFICE:
WINNIPEG, MAN.

BRANCHES:
Saskatoon, Sask.; Edmonton, Alta.; Regina, Sask.
Calgary, Alta.; Vancouver, B.C.; London, England

DON'T permit waste or other fire breeding material to accumulate in or about where you are working. Talk to your fellow workers, point out the danger and loss from fire and induce them to use care and precaution to prevent fires. Don't do this for a limited period only, but be constantly on the watch for any defects or conditions that might cause fire and see that they are removed.

HOUSEHOLDERS

HOUSEKEEPERS should stop awhile from pleasure and clean up their homes and aid in the prevention of fires.

STOP piling rubbish, trash or waste in cellars, back-yards or streets.

STOP using other than safety matches.

STOP putting ashes in wooden boxes; use metal cans.

STOP filling oil or gasoline stoves or lamps when lighted.

STOP hanging clothing or draperies near open fires or stove pipes or steampipes.

STOP starting fires in furnaces or stoves without seeing that they are properly put up, and see that chimneys and flues are clean.

STOP, LOOK, LISTEN

You have seen this sign at some railroad crossing and have heeded its warning before venturing to cross the track. Why did you do so? Simply because you realized that neglecting to do so might result in injury or death.

Why don't you heed the warning of a greater danger that daily confronts you in your home or business place and throughout the community in which you live? You do not, but go along, never STOPPING to consider what carelessness is doing in the matter of fires.

Nor do you LOOK about your house to see that there is no accumulation of trash, rubbish, or waste hid away in cellars, attics or closets, inviting just a spark to start a fire that would cause the destruction of your home.

Nor will you LISTEN to the words of warning that are being given from time to time by men who are making a study of the question so as to bring to you a realization that by a little care and attention about the premises you can greatly assist in reducing the fire waste.

This would mean a decided reduction in the cost of insurance, which is of especial monetary interest to you as an insurer and to all others who are prone to complain of the high premium rate of insurance and who fail to recognize that the insurance rates are

Jas. Carruthers & Co., Ltd.

Grain Exporters

WINNIPEG :: MONTREAL :: NEW YORK

ALEXANDER REID
President

F. W. CUMMING
Sec.-Treas

PHONE MAIN 5976

Western Terminal Elevator Co.
LIMITED

OFFICE:
No. 467 Grain Exchange

WINNIPEG MANITOBA

SIR DOUGLAS C. CAMERON
President

HEDLEY SHAW
Man. Director

Maple Leaf Milling Co. Limited

WINNIPEG MANITOBA

FIRES IN FACTORIES AND BUSINESS ESTABLISHMENTS CAUSE EIGHTY PER CENT OF CANADA'S FIRE WASTE

Herculean efforts are being made to reduce the high cost of doing business. Yet the waste [illegible]

Are Your Pie Crusts Crisp and Flaky?

Such a crust depends on the lard. Pure, properly refined lard, makes the best pastry.

Swift's Silver-Leaf Brand Pure Lard is absolutely pure, and properly refined.

In sanitary tins of three sizes.

BUY
WAR SAVINGS
STAMPS

Swift Canadian
Company :: :: Limited

TORONTO WINNIPEG EDMONTON

Canada Food Board License 13-171

Victory War Bonds

BOUGHT AND SOLD

Alloway & Champion
LIMITED

62 MAIN STREET
WINNIPEG, MAN

The City Dairy
LIMITED

DISTRIBUTORS OF
Pure Pasteurized Milk and Cream
AND
Manufacturers of
High Grade Creamery Butter

Phones: Garry 2700, 2701, 2702

based on the loss ratio, the latter being due to carelessness and the lack of active work in the prevention of fires

GET TOGETHER, STOP the carelessness, as it is causing 60 per cent. of all fires. LOOK into the condition of property in your immediate vicinity. See that those piles of rubbish and waste are destroyed. LISTEN to the voice of your conscience which undoubtedly tells you that you have failed to do your duty to yourself, your family and your neighbors by this lack of interest in the prevention of and protection against fire.

You read daily in the papers of some fire that has made some people homeless. Have you profited by the experience of those so unfortunate who probably may have lost a life's savings, with nothing to look forward to but a hard struggle to regain what has been lost, possibly through carelessness?

Have you cleaned up your premises? Have you looked about for fire-making material that might cause a fire at your own home and communicate it to and destroy your neighbor's property?

STOP keeping inflammables near furnaces or stoves.

STOP piling rubbish, trash or waste in cellars, back yards or on streets.

STOP the cost of carelessness. Fires on this continent from this source amount to over $30,000.00 each hour.

STOP fire loss which adds to the high cost of living.

STOP paying fire tax which is added to your rent and cost of living.

STOP to think that the responsibility of fires rests in a measure with your activity in Prevention.

STOP to think that two-thirds of all fires are preventable.

STOP to realize that fire insurance rates are based on the sum total of carelessness.

STOP a while from pleasure and clean up your homes and aid in preventing fires.

STOP putting ashes in wooden boxes or barrels. Use metal ash cans.

STOP hanging clothing or draperies near open fires or stoves or on stove pipes or steam pipes.

STOP filling oil or gasoline stoves when lighted.

STOP allowing the oil to become low or wicks short in lamps; explosive gas may be generated. In no case fill lamps after dark.

LOOK carefully into condition of chimneys. Keep them in good repair and clean.

LOOK after heaters, stoves and pipes. See that they are properly put up and that pipes are firmly fastened to prevent falling.

LOOK after oily rags and waste. They cause spontaneous combustion.

LOOK after home fire prevention. Have buckets filled with water and fire extinguishers handy in case of emergency.

COR. JAMES AND MAIN

WESLEY THOMPSON

COR. JAMES AND MAIN

WINNIPEG'S LEADING STORE FOR

"GOOD VALUES" in MEN'S CLOTHING and FURNISHINGS

SOLDIERS IN UNIFORM WILL RECEIVE A DISCOUNT OF 10 PER CENT ON ALL REGULAR PRICES FOR THEIR FIRST OUTFIT

BOYS' DEPARTMENT IN CONNECTION

COR. JAMES AND MAIN STREETS WINNIPEG

MUSIC

"Is the fourth great essential of human existence. First, food. Second, raiment. — Third, shelter. — Fourth, "music."

Bovee

Wholesale Headquarters for

Musical Instruments of Quality

THE R. S. WILLIAMS & SONS CO. Ltd.

WINNIPEG BRANCH

121 McDERMOT AVENUE

A. Bright & Co.

Import and Wholesale

CROCKERY
CHINA
GLASSWARE
LAMPS
AND
FANCY GOODS

Specialties:
HOTEL AND RESTAURANT SUPPLIES

Phone Main 2049

141 Bannatyne Ave. Winnipeg

"BEST BY EVERY TEST"

Buffalo Brand Oils, Lubricants and Specialties

MANUFACTURED BY

PRAIRIE CITY OIL COMPANY LIMITED

WINNIPEG, MANITOBA

And Sold by all reliable Dealers and Garages throughout the West

Have Your Car Filled at Buffalo Service Stations:

No. 1. Maryland and [illegible] ge.
No. 2 Maryland South (opp. Union Station).
No. 3. McDer[illegible]rie (opp. Grain Exchange)
No. 4. Port[illegible]

Quick Service and Quality Goods Guaranteed.

Free Air, Water, [illegible] necessary conveniences.

LOOK to it that lighted matches, cigars or cigarette stubs are not thrown about. Many fires are caused from neglect to observe this precaution.

LOOK to it that hot ashes are not thrown against fences or buildings.

LOOK and see that matches are placed out of the reach of the children. Use none but safety matches.

LOOK and see that your buildings are kept in good repair.

LOOK to it that trash, rubbish and waste are not permitted to accumulate.

LISTEN: You have been urged from time to time to give your attention to Fire Prevention. Consider your own interest and do so.

LISTEN: Don't you realize that by co-operating with your neighbors you can improve conditions and make your community a better place to live in, free from objectionable accumulation of waste, and bring about a reduction in fire loss.

THE CONTROL OF FIRE WASTE

Consideration of the basic differences between fire waste conditions in Canada and foreign countries leads to the conclusion that, in this generation, we cannot hope to approximate the same standards as Europe. The mass of timber construction, climatic conditions, the restless, mobile character of the population, are three sufficient reasons, apart from incendiarism and carelessness. Nevertheless, the present rate of loss can be greatly reduced by placing proper emphasis upon preventative measures.

Fire prevention in its larger significance aims at control of the three great sources of all fires, physical, occupational and personal. It seeks to compel a proper construction of buildings and the safeguarding of hazardous features in buildings. It aims to correct personal negligence in regard to fire dangers and to discourage incendiarism by urging rigid investigation into the causes of all fires. While it is improbable that such laws as obtain in Europe in regard to the control of fire will ever become enacted in Canada, there is a pronounced and growing tendency to curb public evils by statutory intervention. In our complex modern life, proper legislation and its effective enforcement have been found essential to produce any real control over the things that should be repressed in the common interest and for the common good.

In the treatment of no other subject affecting public welfare has Canada tarried so long as it has in the field of fire prevention. Canadians have had such a fund of natural wealth and believe so thoroughly in individual freedom that they have not felt the need of economy nor have they been willing to circumscribe personal

AUTO TIRE & VULCANIZING CO.

WE HAVE REPLACEMENTS

Tires Any Make Batteries Detroit Accesories

WE CAN REPAIR

Tires Vulcanized Retreading Batteries — Any Make

We have the largest and best repair plant in Western Canada. All repairs guaranteed

Auto Tire & Vulcanizing Company

Phone Garry 2767 **WINNIPEG** **309 Cumberland St.**

Winnipeg Oil Company

Limited

HEADQUARTERS

WINNIPEG - MANITOBA

Branches in

Manitoba, Saskatchewan, Alberta.

High Quality Gasolines

Tractor Oils and Coal Oil

If you want good Lubricating Oils and Greases, ask for REGA BRANDS They excel in Quality.

Western Gem Coal

IS A CLEAN, FREE BURNING, LONG FLAME DOMESTIC COAL

Mined in Alberta

It is free from soot, smokeless, and holds fire all night.

Most suitable for furnaces, stoves and ranges.

The most satisfactory substitute obtainable for anthracite coal.

We solicit a trial order.

The WINNIPEG SUPPLY & FUEL COMPANY

LIMITED

Telephone Garry 2910 **Producers**

The James Ballantyne Co., Ltd.

Contractors for

Plumbing, Heating, Ventilating and Power Work

GEO. A. YOUNG, General Manager

Cor. Wall St. and Richards Ave. Winnipeg, Manitoba

liberties. The fire waste has become, however, an economic burden that not even the wealthiest country can long afford.

CHIEF CAUSES OF FIRE WASTE

Carelessness

- Carelessness in general.
- Matches.
- Smoking.
- Accumulations of rubbish.
- Indifference because of insurance.
- Hot ashes in wooden receptacles.
- Careless handling of gasoline.
- Lighting fires with coal oil.
- Ignorance of fire hazards.

Insurance

- Moral hazard.
- Non-inspection of property by agents.
- Attitude of courts toward fraudulent claims.
- Over-insurance.
- Unscrupulous agents.
- Fire insurance in general.
- Too prompt payment of losses.
- Agents' desire for large commissions.
- Inexperienced loss adjusters.
- Adjusters for the assured.

Building Construction

- Poor construction in general.
- Defective chimneys.
- Shingle roofs.
- Frame buildings.
- Exposure.

Inadequate Laws

- Want of laws to fix personal responsibility.
- Inadequate building by-laws.
- Lack of municipal inspection laws.
- Poor enforcement of building laws.
- Lack of investigation of causes of fires.
- Indifference of municipal councils.
- Lack of regulations in regard to explosives and combustibles.

ANTHES FOUNDRY, LIMITED

MANUFACTURERS OF

CAST IRON SOIL PIPE AND FI NGS

Anthes Cast Iron Soil Pipe will last you as long as the buil [illegible] **Did you ever hear of Cast Iron Soil Pipe rusting out?** [illegible]

[illegible] Cast Iron Soil Pipe and Fittings are [illegible] than the [illegible]

Cast Iron Pipe has [illegible] 250 years [illegible] and Cast Iron Pipe and Fittings [illegible] building as good as new after [illegible] years' service.

"We make the permanent pipe"

TORONTO **ANTHES FOUNDRY, LIMITED** WINNIPEG

FURNITURE

OF THE

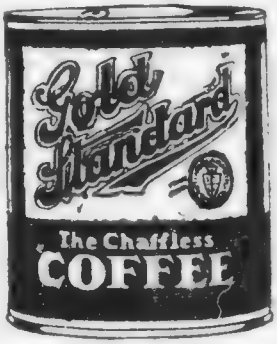
BETTER KIND

AT MODERATE PRICE

LESLIE'S

324 MAIN ST.

Gold Standard



Satisfying to the keen appetite, whetting to the listless one.

Get a can from your grocer today

The Gold Standard Mfg. Co.

LIMITED

Winnipeg :: :: Manitoba

Hand and Platform Trucks

We carry every variety of truck made

Phone Garry 1022

John Watson Mfg. Co.

311 Chambers and Henry Ave.

WINNIPEG, Man.

KELLY BLOCK FIRE
Showing action [illegible] after [illegible]

FIGHTING FIRE AT KELLY BLOCK
January, 1911, in 42 below zero weather

BANK OF MONTREAL

Established 102 Years (1817-1919)

Capital Paid Up	$ 16,000,000
Rest	16,000,000
Undivided Profits	1,901,613
Total Assets	558,413,546

BOARD OF DIRECTORS:

Sir Vincent Meredith, Bart., President
Sir Charles Gordon, K.B.E., Vice-President

R. B. Angus, Esq.
Lord Shaughnessy, K.C.V.O.
C. R. Hosmer, Esq.
H. R. Drummond, Esq.
D. Forbes Angus, Esq.
Wm. McMaster, Esq.
Major Herbert Molson, M.C.
Harold Kennedy, Esq.
H. W. Beauclerk, Esq.
G. B. Fraser, Esq.
Col. Henry Cockshutt
J. H. Ashdown, Esq.

Head Office: MONTREAL

General Manager:
Sir Frederick Williams-Taylor

Branches and Agencies:

Throughout Canada and Newfoundland

Also at London, England

And New York, Chicago and Spokane in the United States

A GENERAL BANKING BUSINESS TRANSACTED

The BANK OF TORONTO

Our Aim is Service

Loan Department.

Mercantile and manufacturing accounts solicited.

Our ample resources and complete organization enables us to handle such business to advantage.

Savings Department.

Special attention is given this Department.

All accounts, both large and small, are welcome.

456 Main St. Winnipeg, Man.

Sir Edmund Walker, C.V.O., LL.D., D.C.L., President Sir John Aird, General Manager
H. V. Jones, Assistant General Manager V. C. Brown, Supt. of Central Western Branches

The Canadian Bank of Commerce

Capital Paid Up: $15,000,000 **Reserve Fund: $15,000,000**

SAVINGS BANK BUSINESS

A Savings account will assist you in the patriotic and personal duty of conserving your finances. This Bank allows interest at current rates, and welcomes small accounts as well as large ones.

C. W. Rowley, Manager

THE ROYAL BANK OF CANADA

INCORPORATED 1869

Capital Authorized	$ 25,000,000
Capital Paid Up	14,000,000
Reserve and Undivided Profits	16,000,000
Total Assets	427,500,000

On account of our large number of branches throughout the country, we can offer exceptional banking facilities to business houses.

Savings Accounts may be opened at all branches with an initial deposit of One Dollar.

Robt. Campbell, Acting Supervisor of Western Branches

C. F. Pentland, Mgr., Winnipeg Branch R. C. Baird, Mgr., Grain Exchange Branch

Heating and Lighting

- Defective electric wiring.
- Defective stovepipes.
- Defective furnaces.
- Defective gas appliances.
- Over-heated stoves and furnaces.
- Unprotected gas jets.

Public Fire Protection

- Inadequate fire protection.
- Defective fire protective appliances.

Miscellaneous

- Lightning.
- Climatic conditions.

CAUSES OF FIRE SPREADING

The causes of fires spreading from building to building are numerous. Being contributory rather than causative, they do not usually receive much attention in the reports of fires. The following list shows the specific reasons assigned for the spread of the more important fires:

Combustible construction in general	218
Combustible roofs	184
Unprotected windows	116
Lack of properly organized fire department	69
Defective party walls	53
Low water pressure	43
Unprotected doorways	41
Lack of public water supply	37
Openings in party walls	29
Inadequate fire apparatus	23
Lack of parapeted walls	22
Frozen hydrants	16
Collapse of external walls	16
Lack of fire alarm system	14
Unprotected communications between buildings	9
Accidents to fire apparatus	8
Weak fire department	7
Broken water mains	6
Lack of hydrants	5

Seventy-five per cent. of the fires are shown to be the result of poor construction.

THE MOLSONS BANK

100 Branches Throughout Canada

SAVINGS DEPARTMENT
AT ALL BRANCHES

Incorporated Over 60 Years Ago

This Bank during its long history has never reduced its capital nor failed to pay a dividend. Its conservative policy is a safeguard to depositors.

DEPOSITORS SHOULD THINK OF
SAFETY FIRST

Merchants Bank of Canada

HEAD OFFICE, MONTREAL

D. C. Macarow - General Manager
E. F. Hebden - Managing Director

Capital Paid Up.....$7,000,000
Reserve Fund..... $7,421,292

Safety Deposit Boxes to Rent
INSPECTION INVITED

Savings Department at all Branches

Deposits received of $1.00 and upwards and interest allowed at best current rates. * Joint accounts opened, subject to cheque of either party

Winnipeg Branch Opened 1873

W. J. Finucan - - - - - Manager
H. W. Nesbitt - - - Asst. Manager

Bannerman Avenue Branch

Cor. Main St. and Bannerman Ave.
Geo. McEwen, Manager

National Trust Co.

LIMITED

Capital Paid Up $1,500,000
Reserve Fund.. $1,500,000

Money to Loan on Improved Real Estate

Estates Administered
Rentals Collected

Liquidator, Assignee, Official Guardian and Trustee for Bond Issues

Safe Deposit Vaults
Boxes and Space to Rent

WINNIPEG OFFICE

D. H. COOPER, *Manager* A. S. BOND, *Asst. Manager*

Board of Directors:

Thos D. Robinson, Esq., President.
C. W. N. Kennedy, Esq., Vice President
W. M. Bannatyne, Manager.
R. T. Heron, Asst. Manager.

The Commercial Loan and Trust Company

Authorized Capital.....$2,000,000.00
Paid Up Capital and Surplus 254,927.98

Acts as Trustee, Administrator Executor, Assignee, etc. Clients Funds received for Investment at the best rates of Interest. Security First Mortgage 40 per cent of Valuation. Principal and Interest Guaranteed. Interest Paid Half-Yearly.

Undertakes the management and Sale of Real Estate Correspondence Invited.

Farm and City Property for Sale

317 Portage Ave. - Kennedy Bldg.
Winnipeg, Canada

WHAT FIRE WASTE COSTS CANADA EVERY YEAR

Taking into account the direct and incidental cost of fire waste, viz., property loss, insurance protection, waterworks protection, municipal fire department protection and private fire protection, it appears that the total reaches the enormous sum of $49,400,000 per annum. The contribution of each respective item is given in the following summary:

	Capital Investment	Annual cost		
		Interest and depreciation	Maintenance	Total
Fire Loss				
Total fire loss				$21,248,669
Fire Insurance				
Premiums in excess of losses paid				14,051,243
Waterworks				
Cost chargeable to fire service: Total	37,797,405	2,632,731	1,677,863	4,310,594
Fire Departments				
Cost to protected communities: Total	11,411,245	1,265,525	3,787,485	5,053,011
Private Fire Protection				
Estimated cost	15,435,000	2,160,900	2,571,750	4,732,650
Grand total	$64,643,650			$49,396,167

OVERHEAD CHARGES

To illustrate in a concrete manner the extra overhead charges imposed upon the Canadian manufacturer through the excessive cost of insurance, English and Canadian rates on a number of specific industries are compared in the following table:

Class of property insured	Rates in England	Rates in Canada
	Per $100 per annum	Per $100 per annum
Biscuit factory	$0.37 cents	$1.80
Boot and shoe factory	0.47 "	2.05
Brewery	0.10 "	0.90
Clothing factory	0.17 "	0.87
Flour mill	0.53 "	2.75
Fur garment factory	0.45 "	1.45
Harness factory	0.17 "	1.45
Hat factory (felt)	0.42 "	1.50
Hat factory (straw)	0.37 "	1.63
Machine shop	0.15 "	1.00
Planing mill	1.25 "	3.18
Tannery	0.37 "	1.52
Whitewear factory	0.15 "	0.85
Wood box factory	1.57 "	3.10
Woollen mill	0.92 "	3.25

To Execute Faithfully Your Will

[illegible]

[illegible]

The Standard Trusts Company

346 Main Street, Winnipeg

Capital $1,000,000 *Reserve $600,000*

C. H. Enderton & Co.

Real Estate

Mortgage Loans

Investments

Insurance

288 PORTAGE AVENUE

WINNIPEG, MAN.

Established 1890

ESTABLISHED 1864

Imperial Bank of Canada

ELEG HOWLAND, President
C. HAY, General Manager

Head Office - Toronto

Drafts and Money Orders sold, and money transferred by telegraph or letter. Interest credited half-yearly at Current Rate on Savings Deposits

The DOMINION BANK

Head Office: Toronto, Ont.

Sir Edmund B. Osler, K.C., M.P., President

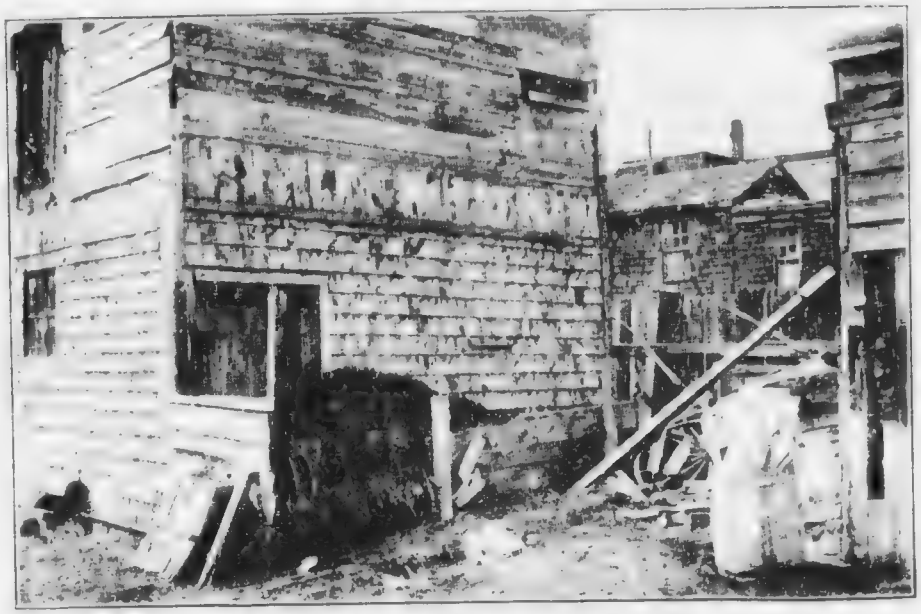
C. A. Bogert, General Manager

Over Seventy Branches throughout Canada. Collections in Western Canada given prompt attention.

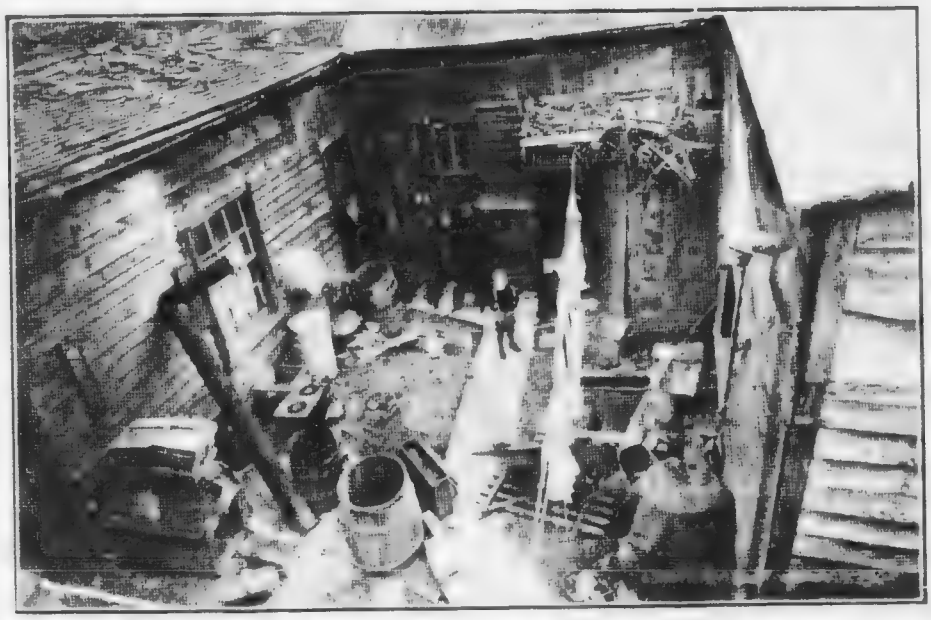
WINNIPEG BRANCH

F. L. Patton, Sup't. of Western Branches

R. K. Beairsto, Assistant Manager



FIRE BREEDING CONDITIONS IN A CANADIAN VILLAGE



AT THE REAR OF A BLOCK IN A CITY

Canada Permanent Mortgage Corporation

"The Pioneer Mortgage Company of the West"

HEAD OFFICE: TORONTO STREET, TORONTO

Paid Up Capital	$ 6,000,000.00
Reserve Fund	5,500,000.00
Total Assets	31,461,387.24

The Corporation Lends Money on Improved Farm and City Properties at LOWEST CURRENT RATES OF INTEREST

The Corporation accepts DEPOSITS in sums of $100 and upwards

The Corporation's Debentures bear interest at 5½% and are accepted by the Courts as a Depository for Trust Funds

GEO. F. R. HARRIS, Manager
WINNIPEG

The Traders' Trust Company

BOARD OF DIRECTORS

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D. E. WILLIAMS . Vice-President
J. W. CAMPBELL . . . Secretary
LIEUT. W. S. NEWTON . Treasurer
C. H. NEWTON

ASSIGNEES, EXECUTORS, ADMINISTRATORS, FINANCIAL AGENTS

C. H. NEWTON, OFFICIAL ASSIGNEE

HEAD OFFICE: WINNIPEG
401-407 Union Trust Co. Building

BRANCH OFFICE: BRANDON
Manager, F. W. Westwood

Bankers: Merchants Bank of Canada

THE ROYAL TRUST COMPANY

EXECUTORS and TRUSTEES

Capital Fully Paid	$1,000,000
Reserve Fund	$1,000,000

BOARD OF DIRECTORS

Sir Vincent Meredith, Bart., President
Huntly R. Drummond, Vice-President

Lieut.-Col. Sir H. Montagu Allan, C.V.O.
R. B. Angus
Lieut.-Col. Hon. C. C. Ballantyne, M.P.
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C. R. Hosmer
Howard G. Kelley
William McMaster
Lieut.-Col. Herbert Molson, M.C.
Lord Shaughnessy, K.C.V.O.
Sir Frederick Williams-Taylor

A. E. HOLT, Manager

HEAD OFFICE, MONTREAL
105 St. James Street

BRANCHES:

Calgary, Edmonton, Halifax, Ottawa, Quebec, Regina, St. John, N.B., St. John's, Nfld., Toronto, Vancouver, Victoria, Winnipeg

THE BANK OF NOVA SCOTIA

INCORPORATED 1832

Capital Authorized	$ 10,000,000.00
Capital Paid Up	6,500,000.00
Reserve Fund	12,000,000.00
Total Assets over	160,000,000.00

A GENERAL BANKING BUSINESS TRANSACTED

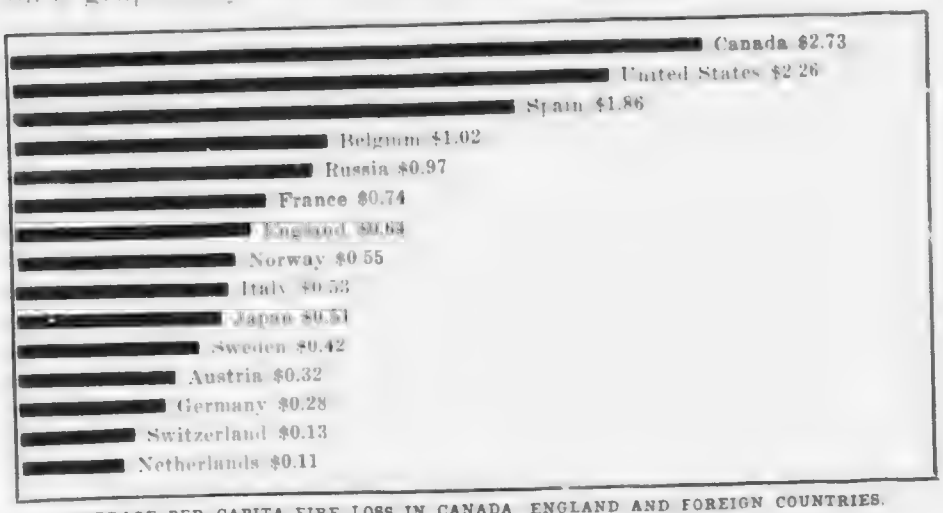
SAFETY DEPOSIT BOXES FOR RENT

Winnipeg Branch:
Corner Portage Ave. and Garry St.
F. W. Ross, Manager

Elmwood Branch:
Corner Stadacona and Newton

LOSS IN CANADA COMPARED WITH OTHER COUNTRIES

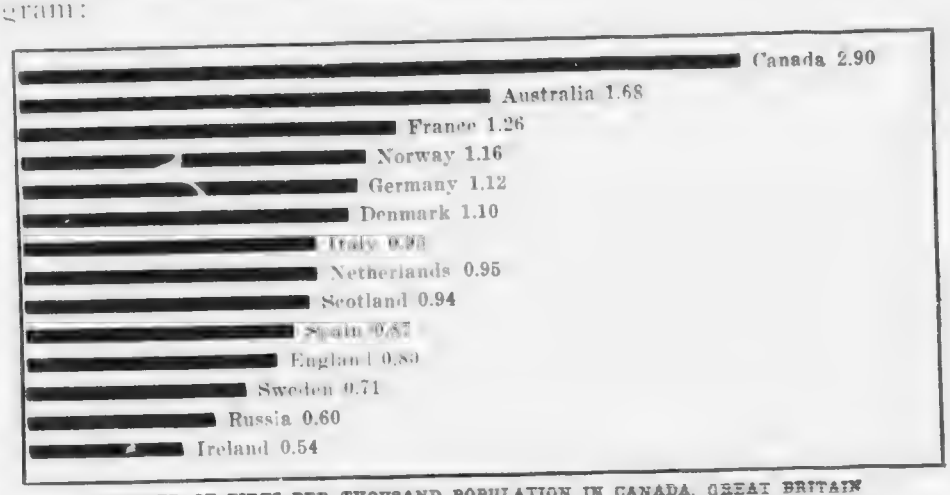
The true significance of the fire waste in Canada can perhaps be best realized by comparison with the loss in foreign countries. From figures made available by the National Board of Fire Underwriters, it appears that the average per capita loss in Canada exceeds that of every other nation in the world. The actual comparison is graphically shown in the following diagram:



AVERAGE PER CAPITA FIRE LOSS IN CANADA, ENGLAND AND FOREIGN COUNTRIES, 1912-13

COMPARISON IN NUMBER OF FIRES

A comparison of the number of fires in Canadian and foreign cities, on the basis of population, is shown in the following diagram:



NUMBER OF FIRES PER THOUSAND POPULATION IN CANADA, GREAT BRITAIN AUSTRALIA AND FOREIGN COUNTRIES (CITIES ONLY)

Ask for

"HEALTH" BRAND MATTRESSES
"OSTERMOOR" MATTRESSES
"THE BANNER" SPRING

MADE IN WINNIPEG BY

The Alaska Bedding Company, Limited

Established 1865

UNION BANK
OF CANADA

Head Office: WINNIPEG

Paid-up Capital	$	5,000,000
Reserved		3,600,000
Total Assets	over	153,000,000

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Reserves	**756,580**

5½% on Debentures

An authorized Investment for Trust Funds.

Full Information Upon Request

4% Allowed on Savings Accounts

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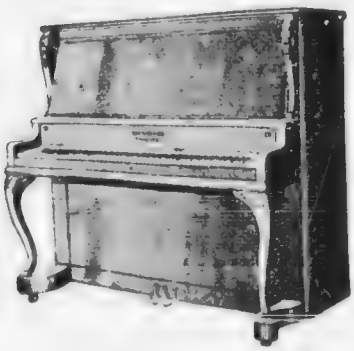

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TOTAL VOLUME OF CANADA'S LOSS

More striking still at the present time is a comparison of the total volume of Canada's loss with that of the United Kingdom. The record for the war period, August, 1914, to December, 1916, is as follows:

	Canada	United Kingdom
August-December, 1914	$ 7,605,090	$ 7,116,250
January-December, 1915	19,022,332	17,457,000
January-December, 1916	25,400,000	16,821,750
	$52,027,422	$41,395,000

AVERAGE ANNUAL LOSS PER CAPITA

United States and Canada	$2.61
European countries	0.71
All other countries	1.13

LOSS OF LIFE BY FIRE

During the years 1912-1915, no less than 789 men, women and children lost their lives, and 2,103 persons were severely burned or otherwise injured as the result of fire. These figures were gathered from newspaper reports and other available sources of information and are doubtless incomplete. As a rule, fire chiefs do not maintain records of deaths and accidents by fire other than those occurring in burning buildings. It is safe to assume, therefore, that the figures given are considerably below the actual number.

For every passenger killed on steam or electric railways in Canada over four persons are burned to death by fire.

DEATHS CAUSED BY FIRE AND BY RAILWAYS IN CANADA, 1912-1915

YEAR	No. of Deaths by fire	Passengers Killed: Steam Railways	Passengers Killed: Electric Railways
1912	229	48	16
1913	234	41	15
1914	180	27	9
1915	146	17	14
Total	789	133	56

The reported causes of losses of life are classified for each year in the following table.

The Toronto General Trusts Corporation

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Capital . . . . . **$ 1,500,000.00**
Reserve . . . . . **$ 2,000,000.00**
Assets under Administration (over) $90,000,000.00

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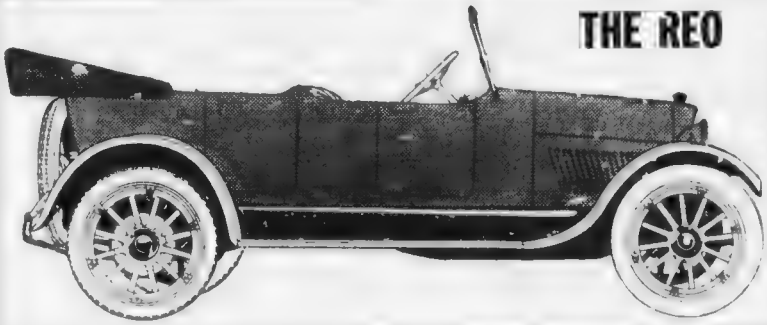

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Blacksmiths' Supplies **Builders' Hardware**
Tools **Cutlery, Cut Glass and Silverware**

Plumbing
Paints, Oils, etc.
China, Crockery and Glassware
Sporting Goods
Electric Appliances
Auto Accessories

Ashdowns

THE BIG BUSY HARDWARE

ESTIMATED NUMBER OF FATALITIES BY FIRE DURING THE YEARS 1912-1915

Cause of death	1912			1913			1914			1915			Annual totals			
	Men	Women	Children	Men	Women	Children	Men	Women	Children	Men	Women	Children	1912	1913	1914	1915
Burning buildings, brick or stone	5	10	13	16	14	23	8	7	4	5	9	14	28	53	19	28
Burning buildings, frame	18	7	17	24	18	25	9	42	42	19	23	11	42	67	66	53
Burning tents	2			2	1			....	....		....		2	3	....	....
Burning vessels	1			1	1	4		....	....		....		1	6	....	....
Bush fires	1			....	....		3	....	....	2	....		1	....	3	2
Children playing with fire			6	....	....	3		....	5		....	9	6	3	5	9
Clothes ignited by bonfires			1	....	1	1		2	2		....	2	1	2	4	2
Clothes ignited by coal grates		11	1	1	8	4		3	2		2	2	12	13	5	4
Clothes ignited coal oil stoves	1	13	3	....	19	9		1	1	1	3	2	17	28	2	6
Clothes ignited by gas jets		5	1	....	1			1	2		....		6	1	3	....
Clothes ignited by matches	4	5	20	1	3	13		4	24	....	2	10	29	17	28	12
Coal oil lamps overturned	1	12	5	....	4	2		3	7	....	2	1	18	6	10	3
Explosion of coal oil lamps	2	3	1	....	1	5	1	1	3	1	3		6	6	5	4
Explosion of coal oil stoves		3		....	1	1	1	2	4	....	1	2	3	2	7	3
Explosion of spirit lamps		1		....	....			....	1		....		1	....	1	....
Fireworks	1			....	....			....			....	1	1	....	....	1
Ignition of gasoline	3	12		1	7			....		1	4		15	8	6	5
Ignition of turpentine and wax		1		....	....			....		1	....		1	....	....	1
Ignition of tar				....	....		1	....			....		....	....	1	....
Lighting fires with coal oil	6	18		....	8	2		6	....	1	7	1	24	10	6	9
Lighting fires with gasoline	1	3		....	2		1	4	....	1	....		4	2	5	1
Prairie fires	1	1		....	....			....	1	1	1		2	....	1	2
Railway fires	5			1	....		1	....			....		5	1	1	....
Smoking in bed	2			4	1		2	....		1	....		2	5	2	1
Tapers and candles upset		2		....	1			....			....		2	1	....	....
Totals, from all causes	54	107	68	51	91	92	33	49	98	34	57	55	229	234	180	146

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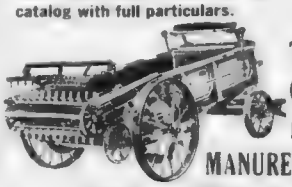

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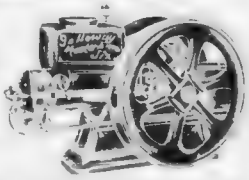

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From the foregoing figures it appears that 78 per cent. of the deaths recorded was of women and children. Over 350 lives were lost in burning buildings, and it is significant that almost 75 per cent. of these occurred in dwellings. As might be expected, the overwhelming majority of fires was caused by criminal carelessness. This is especially true in regard to the kindling of fires with coal oil and gasoline and permitting children to play with matches. Such reckless disregard of the safety of human life constitutes a forcible indictment of the entire Canadian attitude towards the dangers of fire.

PUBLIC FIRE ALARM SYSTEMS

The extent of any fire in a protected community depends in a large measure upon the promptness with which the fire extinguishing appliances are brought into operation. The fire alarm system of a city or town ought, therefore, to be as nearly perfect as money and skill can make it. A deficient fire alarm system constitutes a general hazard. It may be tolerated when re-construction would involve a heavy outlay, but a community is dealing with the whole question of fire protection from the wrong end when extinguishing apparatus is purchased at the expense of the alarm system. Three minutes after a fire has broken out a pail of water would usually be sufficient to subdue it. With ten minutes' uninterrupted start, a fire may need a quarter of a million dollars worth of apparatus and an army of men before it can be controlled. An obsolete fire alarm system is the crudest form of economy.

In all the larger cities of Canada, where brigades are fully or partly paid, electric telegraph systems with street alarm boxes are in use. In the smaller towns and villages, discovery of fire is usually announced by means of a public bell or whistle. The number of places depending upon each respective system is given herewith:

	No. of places reporting	Electric telegraph system	Bell, whistle telephones or other means
Cities over 10,000 population	56	53	3
Towns 5,000 to 10,000 population	49	37	12
Towns 1,000 to 5,000 population	387	62	325
Villages under 1,000 population	369	....	369

The transmission of alarms of fire over public telephone systems has become so general in Canada that, to some extent, fire alarm telegraph systems are considered of secondary importance by municipal authorities. During the years 1912-1915, out of 52,178 alarms of fire received in cities, no less than 32,380,

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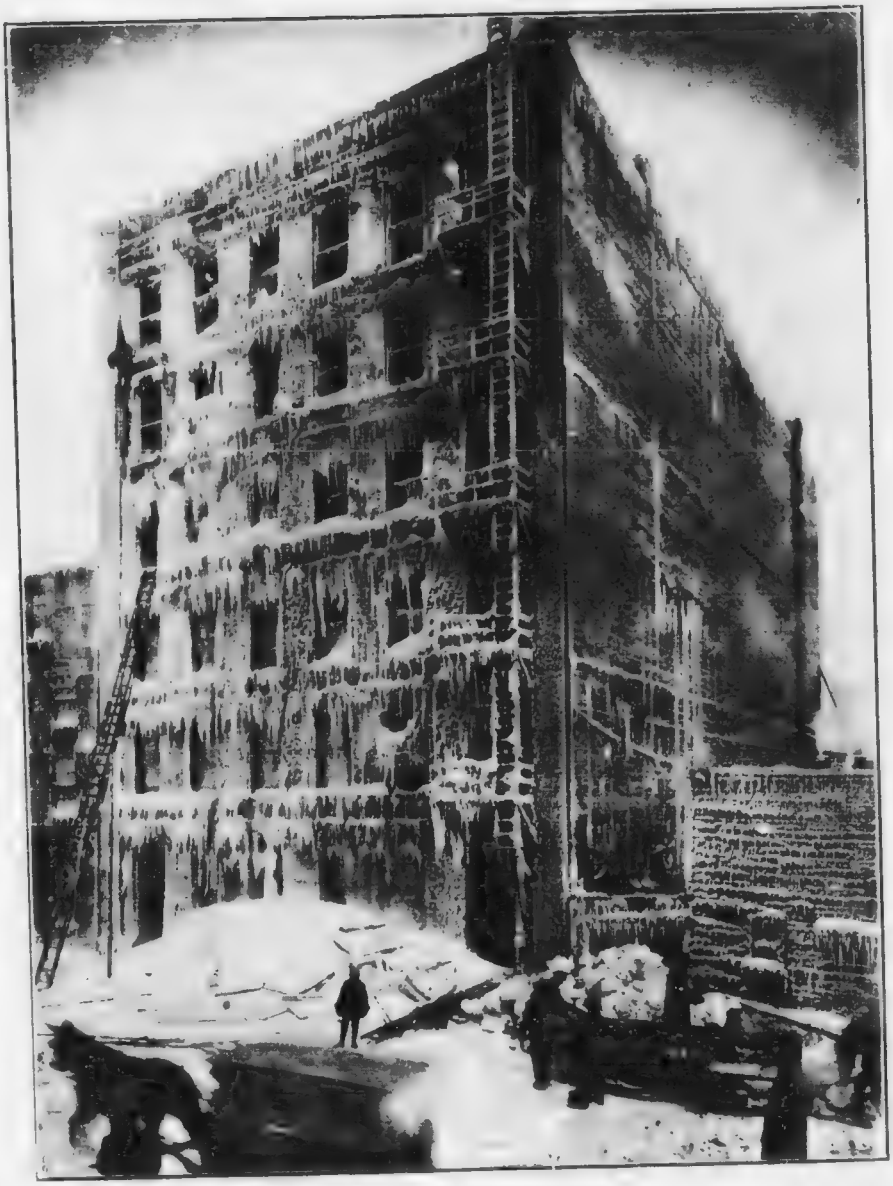

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or 62 per cent., were transmitted by telephone. While the public telephone exchange is adapted for this work, it is the consensus of opinion of all fire chiefs that the street box system is vastly less subject to error.

Divided as far as possible into hourly period, the record in large cities shows that over 40 per cent. of the alarms are received between 7 p.m. and 6 a.m.

Day—	A.M.						P.M.						
Hour	7	8	9	10	11	12	1	2	3	4	5	6	Total
Alarms, p.c.	1.75	2.25	2.25	4.75	5.25	4.25	5.0	5.0	9.5	7.5	7.25	4.75	59.5

Night—	P.M.						A.M.						
Hour	7	8	9	10	11	12	1	2	3	4	5	6	Total
Alarms, p.c.	4.50	6.75	4.75	6.50	4.25	5.0	3.5	1.25	1.0	0.75	1.25	1.0	40.5

AVERAGE PER CAPITA LOSS IN EACH PROVINCE

Province	No. of fires involving property loss	Total value of property destroyed	No. of lives lost
1913—			
Ontario	3,743	$8,179,626	79
Quebec	2,914	5,254,760	56
Manitoba	457	1,461,422	7
Saskatchewan	629	1 772,675	36
Alberta	437	2,409,520	13
British Columbia	651	1,839,741	21
Nova Scotia	265	1,263,889	15
New Brunswick	249	845,531	6
Prince Edward Island	38	278,244	1
Canada, 1913	**9,383**	**23,305,408**	**234**
1914—			
Ontario	4,196	$7,831,333	68
Quebec	3,007	4,767,321	30
Manitoba	445	1,595,460	14
Saskatchewan	696	1,652,350	43
Alberta	387	1,377,417	11
British Columbia	793	1,732,187	6
Nova Scotia	226	945,531	2
New Brunswick	207	1,586,270	3
Prince Edward Island	53	95,249	3
Canada, 1914	**10,010**	**21,583,118**	**180**
1915—			
Ontario	3,206	$7,884,317	51
Quebec	2,873	3,976,901	35
Manitoba	402	1,403,442	20
Saskatchewan	472	973,024	17
Alberta	415	904,677	10
British Columbia	686	1,407,674	7
Nova Scotia	186	986,270	2
New Brunswick	171	1,393,531	3
Prince Edward Island	39	92,496	1
Canada, 1915	**8,550**	**$19,022,332**	**146**

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The foregoing table shows the average per capita loss in each province (population based upon the Dominion census of 1911) as follows: British Columbia, $4.19; Alberta, $3.77; Saskatchewan, $3.50; New Brunswick, $3.36; Manitoba, $3.26; Ontario, $3.07; Quebec, $2.39; Nova Scotia, $2.30, and Prince Edward Island, $1.39. The number of fires reported per 10,000 population were: British Columbia, 17; Ontario, 15; Quebec, 14; Saskatchewan, 12; Alberta, 11; Manitoba, 9; New Brunswick, 6; Nova Scotia, 5, and Prince Edward Island, 5.

The only conclusion that can be drawn from these figures is that there is no fixed law governing the location of fires. The amount of loss and the number of fires are altogether independent of latitude. The statement has been frequently made that losses in Western Canada are greater than in Eastern Canada. To some extent this is probably true, because structural conditions are generally poorer and property values higher. Fires are not more frequent, however, in Western than in Eastern Canada, and there is no indication that the people are more negligent or indifferent, as is sometimes claimed.

EFFECT OF CLIMATIC CONDITIONS

Climatic conditions are generally held responsible for a large proportion of the fire waste in Canada. The chart shows that this conclusion merits some consideration. The curve A, representing the total amount of loss by monthly periods, develops two peaks in each year and at comparatively regular intervals. These recurrent points of maximum loss prove beyond question that climate has a definite bearing upon the fire waste. The first occurs in January or February and the second in June, July or later, the exact month usually depending on the length and heat of the summer and lack of precipitation. Records show that during the summer the greatest loss occurs after a prolonged period of dry weather. Exposure fires are frequent in small towns, villages and rural districts, and extensive losses occur in lumber mills and yards. Throughout the winter months artificial heating and lighting systems and devices cause many fires. A sudden spell of extreme cold is generally accompanied by numerous outbreaks of fire, occasioned by the forcing of heating apparatus beyond the point of safety. Fire departments are also greatly hampered in their work by road conditions and frozen hydrants and the difficulty of handling hose streams in winter, with the result that fires frequently get beyond control and cause heavy losses.

Curve B in Chart represents the monthly fire loss, exclusive of fires in which the loss exceeded $10,000. While the movements of this curve are practically simultaneous with those of

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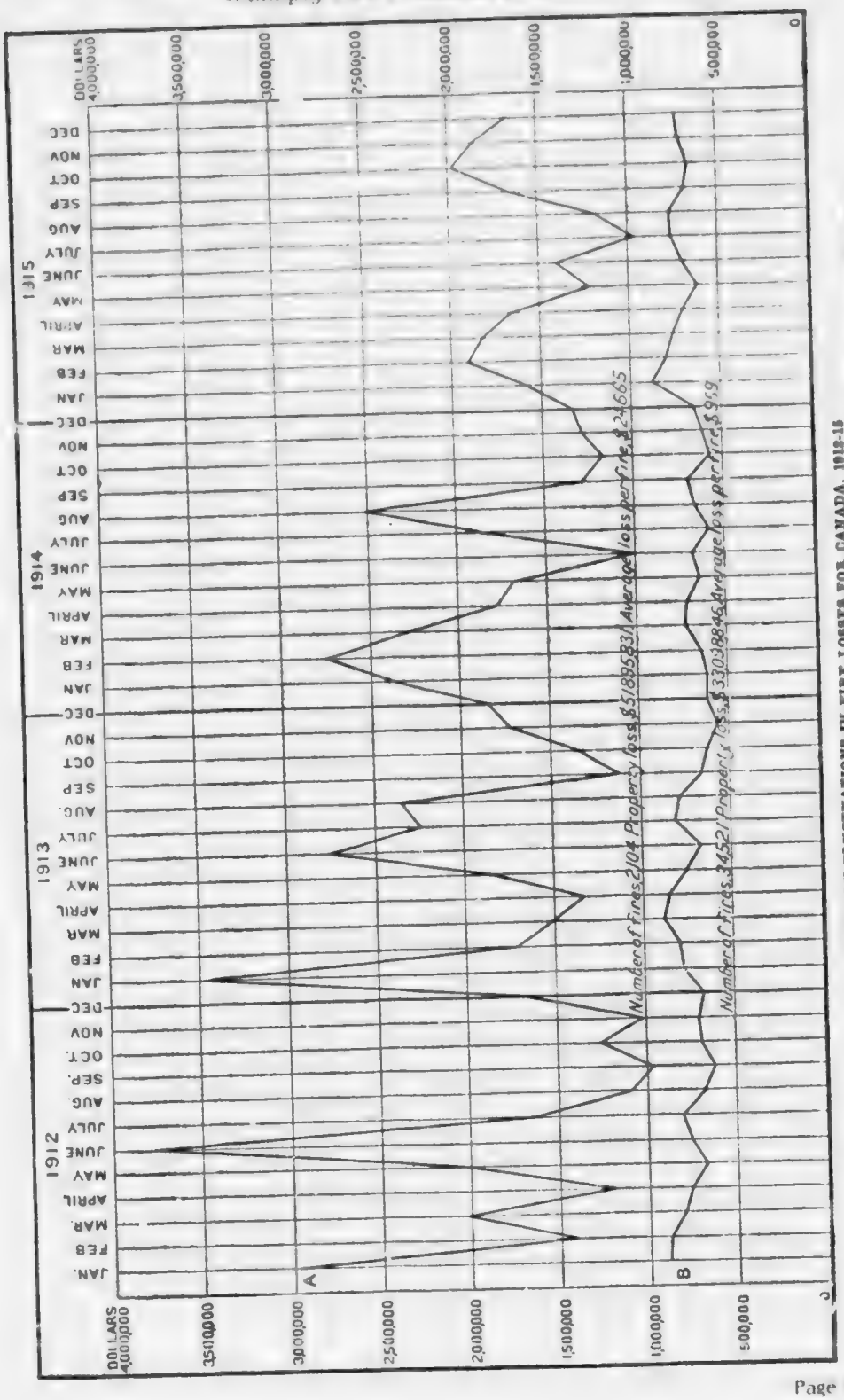

MONTHLY FLUCTUATIONS IN FIRE LOSSES FOR CANADA, 1912-15

Curve A indicates the total property loss, and Curve B the property loss excluding fires in which the damage exceeded $1000.

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Curve A, the degree of fluctuation is far less pronounced. It is obvious, therefore, that large fires are the cause of the great variation in the total fire loss from month to month. The occurrence of these fires at certain specific periods is undoubtedly due to such causes as hot, dry weather in summer and special occupancy hazards in winter. The record of individual fires proves this by showing that the largest winter losses occur in manufacturing and mercantile establishments in cities and towns, while the large summer losses occur in unprotected and isolated properties.

While the effect of climate upon the extent of fire losses should be recognized, it is questionable as to how far extremes of temperature are really responsible for the occurrence of fires in Canada. If defective systems of heating and lighting are the cause of as many fires as is generally supposed, there should be a considerable falling off in the number during the months when these factors are largely eliminated. This decrease should be especially noticeable in cities where fires thus originating are reported as being most numerous. The facts, however, do not support this assumption. Taking the combined records of the cities of Montreal, Toronto, Hamilton and Vancouver for a period of years, the percentage of fire alarms for each month was a follows: January, 8.7; February, 8.2; March, 8.2; April, 7.4; May, 8.9; June, 8.0; July, 9.3; August, 9.4; September, 7.4; October, 7.8; November, 8.0; December, 8.8. There was little variation in the number of alarms throughout the year, with the exception of the months of July and August, when the maximum was reached. It is obvious, therefore, that heating and lighting conditions were not the cause of as many fires as supposed, or that these special hazards of the winter season were counterbalanced by other and greater summer hazards.

That climatic conditions really play an insignificant part in the occurrence of fires is substantiated by the records of other countries. In certain parts of Europe, where low temperatures combined with frame construction and the most primitive heating arrangements prevail, records show the average number of fires per 10,000 population, as follows: Stockholm, 7.1; Moscow, 6.0, and Christiania, 11.6. In the cities of Tokio, Manila and Valparaiso, where high temperatures and flimsy construction are common, fires per 10,000 population average 2, 7 and 12 respectively. The only inference that can be drawn from a comparison of these records with the average of 29 in Canadian cities is that factors other than temperature enter into the situation, and that peculiar climatic conditions cannot be held responsible for the majority of fires that occur in Canada.

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Security Elevator Co.

Limited

Grain Exchange Building

WINNIPEG CANADA

LOSS ON BUILDINGS

During the four years, 1912-1915, the total loss on buildings was approximately $29,704,916, and on contents $45,876,125. The loss upon contents, therefore, exceeded the loss upon buildings by 54 per cent. Fires numbering 3,107 damaged property other than buildings and contents to the extent of $9,413,636, or 11 per cent. of the total loss.

There were fires in 10,791 brick, stone or other solidly constructed buildings, with a loss of $17,537,143 on the buildings and $32,405,836 on the contents. In 22,727 frame buildings there were fires with a loss of $12,167,773 on the buildings and $13,470,289 on the contents. The number of fires in frame buildings, therefore, exceeded those in brick buildings by 112 per cent., but the amount of loss was only one half as great.

In the absence of reliable figures as to the exact number of brick and frame buildings in Canada, this record should not be held to indicate that frame construction is more liable to outbreaks of fire than brick construction. On the contrary, such evidence as is available supports the view that type of building construction has little to do with the occurrence of fire. In a general way, it may be assumed that almost 70 per cent. of existing buildings in Canada are of frame construction. Figures compiled from estimates made by cities, towns and villages exceeding 1,000 population, show the following proportions:

Dwellings	1,003,998	
Frame	702,799	70%
Brick, stone, concrete, brick veneer, etc.	301,199	30%
Stores and mercantile establishments	101,472	
Frame	42,101	42%
Brick, stone, concrete, brick veneer, etc.	59,371	58%
Factories	16,996	
Frame and metal clad	5,335	31%
Brick, stone, concrete, brick veneer, etc.	11,661	69%

These figures are supported, in part, by the records of the Census of Canada, 1911, which gives the number of wooden houses as 1,043,284, and of houses built of other materials as 373,027. At that time, frame buildings comprised approximately 74 per cent. of the total number of dwellings. As at least 60 per cent. of all fires start in dwellings and barns, it is obvious that the larger proportion must occur in frame buildings.

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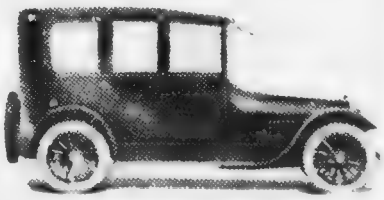

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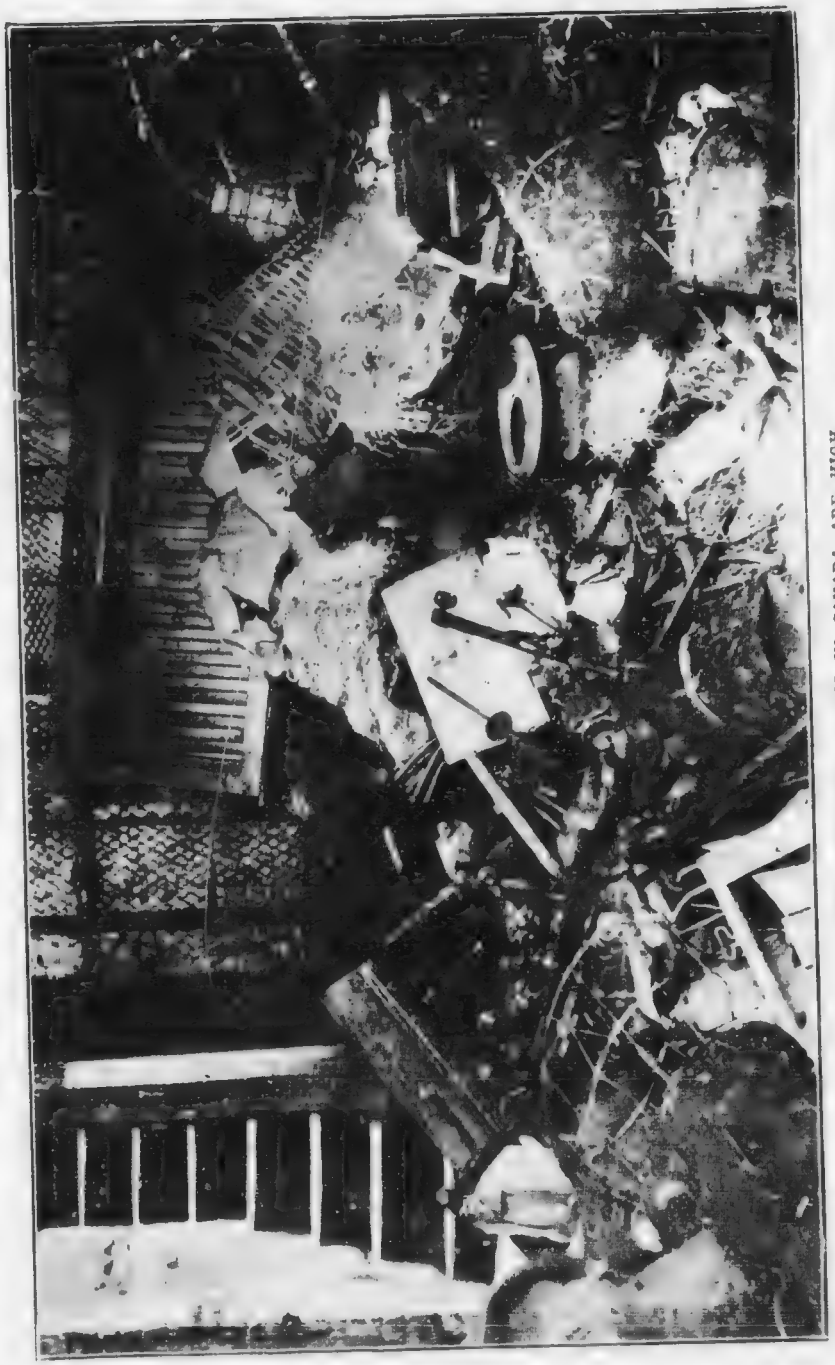

WHY INSURANCE RATES IN CANADA ARE HIGH

[illegible] carelessness causes over seventy [illegible] cent. of Canada's losses. The above [illegible] was the covered in a basement two days after instalment policies for $220,000 had been issued upon the contents of the building.

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PUBLIC FIRE DEPARTMENTS

At the present time, the organization, equipment and maintenance of public fire departments is universally regarded as a function of municipal government. Originally, the work of extinguishing fires was a purely voluntary undertaking. In the United States and Canada, the work of fire extinguishment has, from the beginning, been regarded as a public undertaking. Until 1850, or thereabouts, all fire brigades were composed of volunteers organized through the co-operative enterprise of the citizens of a town. In due course, these voluntary organizations gave way to partly-paid or retained brigades and these, in turn, were replaced in all the larger cities by permanent fully-paid departments These changes were brought about by increasing exigencies of the service consequent upon urban growth and by the introduction of highly specialized fire apparatus which demanded skilled operation.

CITY OF WINNIPEG FIRE DEPARTMENT

The Winnipeg fire department commenced its existence in 1874 as a volunteer force. The equipment was on a par with the size of the city.

Starts in Log Building.

The first fire station was a log building on what is now Lombard avenue. When it was constructed many old-timers grumbled because it was too far from the centre of the city.

In the spring of 1875 the city fathers erected a better fire station, complete with fire alarm bell of the hand variety and hose tower.

In 1877 a hose and engine company of ten men, and a hook and ladder company of 20 men was formed. The brigade lasted five years when the city council decided it was time to organize a permanent, paid fire department.

In 1884 it consisted of three steam fire engines, two double chemical outfits, one single chemical engine, three horse hose reels, four spare reels, one hook and ladder truck and 8,700 feet of hose. The total force comprised 36 men and 17 horses.

The department now is distributed over the city in 15 fire stations. There are 207 men on the permanent force. This comprises one chief, one assistant chief, three district chiefs, one secretary, two clerks, one stenographer, one motor mechanic, 15 captains, 15 lieutenants, four engineers, four assistant engineers and 158 men.

The department possesses six chemicals, 17 hose wagons, seven motor hose wagons, two motor pumps and hose wagons combined, four steam fire engines, three ariel ladder trucks, 75-

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foot motor aerial ladder truck, nine hook and ladder trucks, one 65 foot water tower with deck turret, three deluge nozzles on hose wagons, eight supply wagons, 67 horses, three cutters in reserve, five chiefs' automobiles and 58,189 feet of hose.

Chief Buchanan slowly is eliminating the use of fire engines and of horses. Motor equipment is taking the place of horses, and the new gasoline pumpers are taking the place of fire engines.

2,336 Domestic Hydrants.

There are 52 underground fire tanks, 2,336 domestic hydrants, 157 high pressure hydrants and 381 fire alarm boxes. The boxes are scientifically located with a view to making it impossible for anyone to be more than a minute's walk from one.

Minutes count when fire threatens a dwelling or store, and the nearby boxes on scores of occasions have saved loss of vast sums of money. Auxiliary to the alarm boxes are 66 private auxiliaries, 39 automatic alarms on the May-Oatway system and 66 on the Dominion Messenger and Signal Service system.

WINNIPEG FIRE ALARM SYSTEM

Hand-in-hand with a fire department goes a fire alarm system. Winnipeg's alarm system is held to be the best that can be devised.

All necessary safety devices to prevent high tension currents and lightning damaging the apparatus have been provided both at the central office, at the fire stations and at points where joint lines connect with those beneath the ground.

In the system there is what is known as the fast-time circuit and also a slow time circuit, each carried on separate wires to all the fire halls, waterworks pumping station and the high pressure plant.

When the alarm is received at the central office the operator either switches the alarm through direct to all the halls by means of an automatic repeating mechanism or if another alarm is coming through at the same time and has precedence, the second alarm is recorded on a register and as soon as the fast time lines are clear the signal is sent to the halls by means of a manual transmitter. Following the transmission of the first alarm the operator repeats the alarm on the slow time circuit.

The firemen's attention first is drawn to the fast time alarm which is recorded on an automatic register. If the box number is one to which their company is not required to respond the operator at the equipment in the hall takes note of the number and then pulls over the "silencer."

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LIGGETT'S DRUG STORES

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If the alarm is one to which that company has to respond the operator immediately strikes the loud gong locally and calls out the location of the fire.

Another advantage is that an alternate system is available in case one or the other circuits should become disabled for the transmission of alarms. Another use which is made of these alarm circuits is for telegraphing between halls or to the central office the movements of the different units of the brigade.

WINNIPEG HIGH PRESSURE SYSTEM

As the Winnipeg system is unique in many respects, a brief description of its main features is given herewith:—

The Winnipeg High Pressure System was built in 1908 and was considerably enlarged in 1913. The distribution system covers the congested district and a part of the minor manufacturing and residential districts. The water supply is taken from the Red River, through a 36-inch continuous wood stave pipe, 450 feet long terminating at the pumping station in two branches leading to concrete suction wells 45 feet deep. These wells are used as settling basins for the river silt, with which the water is heavily charged. On one occasion only has the intake been seriously blocked with frazil ice.

The pumping plant consists of four 1,800 gallon triplex double-acting pumps with friction clutch connections to four 540 B.H.P. Crossley two-cylinder tandem gas engines, two 900 gallon pumps of similar type geared to two 250 B.H.P. two-cylinder tandem gas engines and two 1,800 gallon two-stage turbine pumps operating in series, driven by two 320 K.W. induction motors. The gas engines are of four cycle pattern supplied with gas from four Crossley gas producers. Compressed air of 200 pounds pressure is used for starting and the entire plant can be in full operation four minutes after the receipt of an alarm. One turbine is kept running all the time to supply water to the Canadian Pacific Railway shops through an independent pipe line, which may be shut off if the pump is required for fire purposes. The only other service connection to the high pressure system is one automatic sprinkler installation with a valve normally closed.

A pressure of 60 pounds to 110 pounds is constantly maintained in the distribution pipes. On the receipt of a fire alarm this is increased to 200 pounds and, if required, to 300 pounds. There are 15.6 miles of pipe, 127 gate valves, exclusive of hydrant branch valves and 157 hydrants in connection with the high pressure system. The hydrants spacing varies from 110 feet up to 525 feet,

Garry 1198

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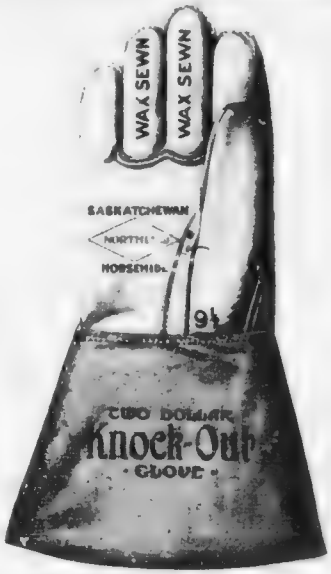

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the average area served by each hydrant in the congested district being approximately 70,000 square feet.

The use of the high pressure system in large fires has been entirely satisfactory and, since its establishment, no fire has progressed beyond the building in which it originated.

The Winnipeg Firemen's Benefit Association

was formed on June 7, 1882, and was reorganized on June 13, 1889. This fund exists for the protection of firemen who in the course of service receive injuries or fall a prey to disease; to insure their lives for the benefit of dependents; to pension their widows and such of themselves as retire after long service, the fund is controlled by a board of directors: Chief J. E. Buchanan, president; D. Beaton Dunn, secretary Fi[illegible] epartment, secretary-treasurer. Board of directors, firemen, E. F. Clapp, R. M. Edgar, J. J. Fox, D. Cramb, F. McDonald.

Winnipeg Fire Department Division of St. John Ambulance Association won the championship of Canada in 1913 in open competition with the leading first aid teams from all the principal cities of the Dominion and was awarded the Wallace Nesbitt Trophy.

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WINNIPEG FIREMEN'S FEDERAL LABOR UNION

Local No. 14

Owing to the impossibility of being able to accomplish anything in the way of improving conditions this Union was instituted October, 1916, and has a membership of practically the entire rank and file of the City of Winnipeg Fire Department. We can safely say that every member is proud of the increased scale of wages and of the work that has been done by the individual efforts of the officials.

Conditions generally have greatly improved and some consideration at least has been given to the claims of those who know these conditions and who suffer most by them. We have improved ourselves, and we have a strong intelligent membership taking an active interest along the lines of social improvement and all that is undertaken for the common good.

It is our hope to settle our problems on a basis of mutual agreement and compromise, and to see that democracy means a larger and more humane conception of the value of human life.

Our membership merely wish for fair and reasonable treatment and the speedy settlement of disputes with no embittering accompaniments, and we all face the future with confidence in this good knowledge.

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Province of Manitoba. Department of Public Works.

HON. GEO. A. GRIERSON, Minister of Public Works

BUREAU *of* LABOR

Office: 300-304 Boyd Block **Phone: Main 700, Local 52-53**

This Bureau is established to co-operate with employers, Trade Unions and others to bring about better relations between employers and employees, and is charged with the enforcement of the following Acts:

"The Manitoba Factories Act."
"The Shops Regulation Act."
"The Bake Shops Act."
"The Public Buildings Act."
"The Building Trades Protection Act."
"The Passenger and Freight Elevator Act."
"The Steam Boiler Act."
"The Fair Wage Act."
"The Electricians' License Act."
"The Licensing of Moving Picture Machine Operators and the Public Amusements Act."
"The Minimum Wage Act."

LAWS GOVERNING CHILD LABOR IN FACTORIES

No male child under fourteen and no female person under fifteen to be employed in any factory.

LAWS GOVERNING STEAM BOILERS AND STEAM ENGINEERS

All steam boilers except "Railway Locomotives", "Steam-boat Boilers", and "Boilers in Private Residences" must be inspected before being operated, and yearly thereafter.

All boilers carrying a pressure of over 20 pounds must be in charge of a licensed engineer.

LAWS GOVERNING ELEVATORS

Section 6.—No elevator shall be operated without a certificate being first obtained from the Bureau of Labor.

Section 12.—All persons operating elevators carrying passengers shall be over the age of seventeen years.

Section 13.—Every operator, before being allowed by the owner to operate any elevator used for carrying passengers, shall hold a license in accordance with schedule "C" to this Act granted by the Bureau of Labor, and such license shall be posted in a conspicuous place in the elevator car operated.

LAWS GOVERNING ELECTRICAL CONTRACTORS AND JOURNEYMEN ENGINEERS

All contractors must obtain a license from the Bureau of Labor, Section 10 of "The Electricians' License Act". All journeymen electricians must obtain a license from the Bureau of Labor, Section 12 of "The Electricians' License Act".

LAWS GOVERNING THE LICENSING OF MOVING PICTURE MACHINE OPERATORS

All Moving Picture Machine Operators must obtain a license from the Bureau of Labor as provided for by Section 18 of the "Public Amusements Act".

The co-operation of all labor organizations and others is desired to make the Bureau a success, and any information as to the violation of any of the provisions of the above-mentioned Acts will receive prompt attention, and be treated as strictly confidential.

Copies of any Act and Fair Wage Schedules will be furnished on request.

E. McGRATH,
Secretary.

BUREAU OF LABOR—Province of Manitoba

The Bureau of Labor came into existence as a result of repeated representations of the Winnipeg Trades and Labour Council, and as Act cited as "The Bureau of Labor Act" was enacted by the Legislature during the session of 1914-1915, and assented to on March 10th, 1915. This Act provided for the appointment of a secretary and such other officers as were deemed necessary and defined the duties of the Bureau as follows:

To collect, assort, systematize and publish information and statistics relating to employment, wages and hours of labor, co-operation, strikes, lockouts or other labor difficulties, trades unions, labor organizations, the relations between labor and capital, and other subjects of interest to workingmen throughout Manitoba, with such information as may be able to the commercial, industrial and sanitary condition of workingmen, and the permanent prosperity of the industries of Manitoba as the Bureau may be able to gather.

It soon became evident that the Act was of little practical use in its then existing form and the present Government on January 3rd, 1916 amended the Act by providing for the re-organization of the Bureau along practical lines, which amendment was assented to on March 10th, 1916, and at that time, the Bureau was charged with the enforcement of the following Acts:—

"The Manitoba Factories Act", which was made to include Chinese laundries.
"The Shops Regulation Act", on the Statutes but not previously enforced.
"The Bake Shops Act", on the Statutes but not previously enforced.
"The Building Trades Protection Act".
"The Public Buildings Act".
"The Steam Boiler Act", in which was incorporated "The Steam Boiler Inspection Act" and "The Stationary Engineers Act", which includes the examination and licensing of steam engineers.
"The Passenger and Freight Elevator Act", new legislation passed at the 1916 session of the Legislature.
"The Fair Wage Act", also new legislation passed at the 1916 session of the Legislature.

At the 1917 session of the Legislature, there were amendments made to both "The Factories Act" and "The Shops Act", whereby it became essential for an employer before employing any young person under the age of sixteen years, to obtain a birth certificate or a written statement from the child's parents, also, exempting all persons under the age of seventeen years from working overtime.

"The Electrician's License Act" was also passed at the 1917 session of the Legislature and became law on the 1st January, 1918, and the Bureau is charged with the enforcement of same.

At the 1917-1918 session of the Legislature, new legislature, viz., "The Minimum Wage Act" was passed and became law on the 15th April, 1918.

On the 1st May, 1918, the licensing of Moving Picture Machine operators was transferred from the department of the Provincial Treasurer to the Bureau, so that at the present time the Bureau is charged with the enforcement of the following Acts:—

"The Factories' Act"
"The Shops Regulation Act".
"The Steam Boiler Act".
"The Passenger and Freight Elevator Act".
"The Fair Wage Act"
"The Building Trades Protection Act".
"The Bake Shops Act".
"The Public Buildings Act".
"The Electrician's License Act".
"The Public Amusements Act".—(Clause 18; governing licensing of Moving Picture Operators.)
"The Minimum Wage Act".

FAIR WAGE ACT

This Act, which was passed at the 1916 session of the Legislature and came into force on March 10th, 1916, was the first legislation of this kind in the Province.

Prior to 1916 Fair Wage schedules were made by an official known as the "Fair Wage Officer".

In January, 1916, a delegation from the Winnipeg Trades and Labour Council waited on the Government and asked for certain amendments to the existing schedule.

At that time, the Bureau suggested the formation of a Fair Wage Board, which would meet once a year at a stated time to prepare a schedule of rates of wages and hours of labor to be effective for one year on all work done under Government contract.

Pursuant to the provisions of this Act, a Fair Wage Board was appointed in May, 1916, composed of Mr S. C. Oxton, Deputy Minister of Public Works, (chairman), Mr. W. J. Davidson, representing the Winnipeg Builders' Exchange, and Mr. George Armstrong, representing the Winnipeg Building Trades Federation.

In 1917, it was decided to increase the Board by appointing two additional members, and Mr. J. W. Morley was appointed to represent the Builders' Exchange and Mr. Walter Owens was appointed to represent Labour.

During 1918, the Board held eight meetings and further revised the schedule.

It is pleasing to note that the awards of the Fair Wage Board have had a very far reaching effect, inasmuch as they cover all basic building trades in the Province of Manitoba, and the findings of the Board are being used by the City of Winnipeg, the Winnipeg School Board, and practically all contractors of any note in the Province.

STRIKES AND LABOR DIFFICULTIES

It is gratifying to note that the work of the Bureau in this connection has been very successful. There are on file letters from both employers and Labor organizations expressing their appreciation of services rendered during the various strikes and Labor difficulties.

The Bureau has also done considerable work in bringing about a closer co-operation between employers and employees, thereby avoiding many labor disputes.

STATEMENT

shewing number of inspections made, orders issued by and number of accidents reported to the Bureau in connection with the different Acts coming under its jurisdiction from 1915 to 1918

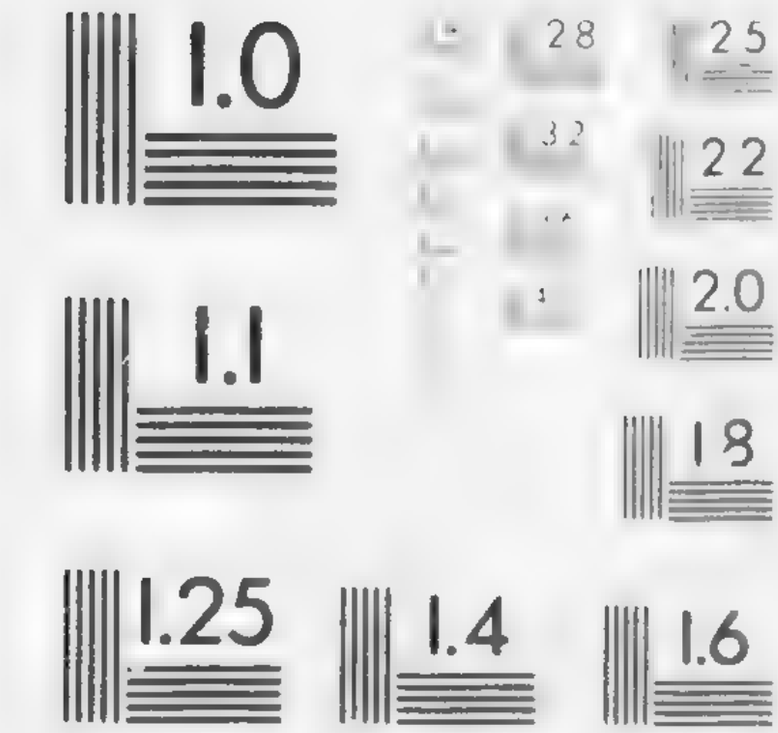
Year	No. of Inspections	No. of orders Issued	Accidents reported	
			Fatal	Non-fatal
1915	1,154	1,220	10	103
1916	5,711	4,577	9	290
1917	8,546	6,277	6	533
1918	10,964	6,577	21	1,102

NB.—RE ACCIDENT REPORTS.

The substantial increase shewn in the above statement is due to the better observance of the law in connection with reporting of accidents rather than an actual increase in the number of accidents, and steps are being taken by the Bureau to attain a higher standard of efficiency in "Accident Prevention", because it is deemed far wiser to prevent rather than compensate.

MICROCOPY RESOLUTION TEST CHART

ANSI/ISO TEST CHART No. 2



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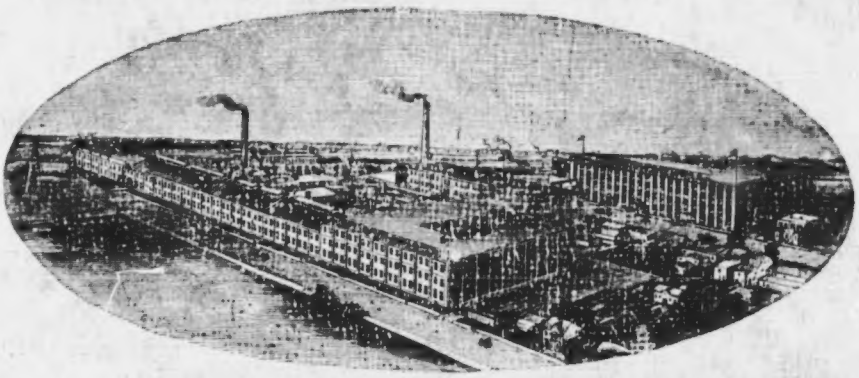

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